



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Hong, S.H..

Appl. No.: 10/780,863

Filed: February 19, 2004

For: **Ceramic Nanocomposite Powders  
Reinforced With Carbon  
Nanotubes And Their Fabrication  
Process**

Confirmation No.: 1952

Art Unit: 1731

Examiner: Lazorcik, J.L.

Atty. Docket: 2236.001000/JUK/SMW

**First Supplemental Information Disclosure Statement  
Filing Under 37 C.F.R. § 1.97(c)**

*Mail Stop Amendment*

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of documents **AS2** to **AS4** are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), copies of U.S. patents, documents **AA1** to **AE1**, cited on the attached Information Disclosure Statement Forms are not submitted.

The Examiner's attention is directed to the following co-pending U.S. Patent Application, which is directed to related technical subject matter:

U.S. Patent Application No. 10/799,923, Hong *et al.*, filed March 15, 2004, (unpublished) submitted herewith as document **AS2**. The Examiner is respectfully requested to consider the cited application and the file history.

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The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to this application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an

action that otherwise closes prosecution in the application. Attached is our PTO-2-38 Credit Card Payment Form in the amount of \$180.00 in payment of the fee under 37 C.F.R. § 1.17(p).

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

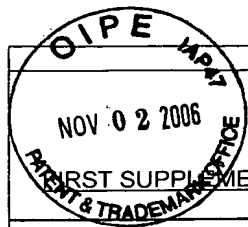
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



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Agent for Applicants  
Registration No. 54,747

Date: November 2, 2006

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FORM PTO-1449

ATTY. DOCKET NO.  
2236.0010000/JUK/SMWAPPLICATION NO.  
10/780,863FIRST NAMED INVENTOR  
Hong *et al.*FILING DATE  
February 19, 2004ART UNIT  
1731FIRST SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	5,627,140	05/06/1997	Fossheim <i>et al.</i>			05/19/1995
	AB1	6,299,812 B1	10/09/2001	Newman <i>et al.</i>			08/16/1999
	AC1	6,346,136 B1	02/12/2002	Chen <i>et al.</i>			03/31/2000
	AD1	6,420,293 B1	07/16/2002	Chang <i>et al.</i>			08/25/2000
	AE1	2003/0181328 A	09/25/03	Hwang <i>et al.</i>			09/10/02

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							Yes No
							Yes No
							Yes No
							Yes No
							Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS	2	Copy of co-pending U.S. Application No. 10/799,923, inventors, Hong, S.H., <i>et al.</i> , filed March 15, 2004 (NOT PUBLISHED)
	AT	2	Dong, S.R., <i>et al.</i> , "An investigation of the sliding wear behavior of Cu-matrix composite reinforced by carbon nanotubes," <i>Mater. Sci. Eng.</i> A313:83-87, Elsevier Science B.V. (2001)

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449  FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2236.0010000/JUK/SMW	APPLICATION NO. 10/780,863
	FIRST NAMED INVENTOR Hong <i>et al.</i>	
	FILING DATE February 19, 2004	ART UNIT 1731

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							Yes
							No
							Yes
							No
							Yes
							No
							Yes
							No
							Yes
							No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>3</u>	Flahaut, E., <i>et al.</i> , "Carbon Nanotube-Metal-Oxide Nanocomposites: Microstructure, Electrical Conductivity and Mechanical Properties," <i>Acta Mater.</i> 48:3803-3812, Elsevier Science Ltd. (2000)
	AS	<u>3</u>	Bian, Z., <i>et al.</i> , "Excellent Wave Absorption by Zirconium-Based Bulk Metallic Glass Composites Containing Carbon Nanotubes," <i>Adv. Mater.</i> 15:616-621 Wiley-VCH Verlag GmbH & Co. (2003)
	AT	<u>3</u>	Bian, Z., <i>et al.</i> , "Excellent Ultrasonic Absorption Ability of Carbon-Nanotube-Reinforced Bulk Metallic Glass Composites," <i>Appl. Physics Let.</i> 82:2790-2792 American Institute of Physics (2003)

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STATEMENT**FIRST NAMED INVENTOR  
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1731**U.S. PATENT DOCUMENTS**

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**FOREIGN PATENT DOCUMENTS**

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							Yes
							No
							Yes
							No
							Yes
							No
							Yes
							No
							Yes
							No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>4</u>	Chen, X., <i>et al.</i> , "Carbon Nanotube Composite Deposits with High Hardness and High Wear Resistance," <i>Adv. Eng. Mater.</i> 5:514-518 Wiley-VCH Verlag GmbH & Co. (2003)
	AS	<u>4</u>	Derwent Acc. No. 2004-239902, English language abstract of Chinese patent CN 1465729 A; filed June 6, 2002 and published January 7, 2004
	AT		

EXAMINER

DATE CONSIDERED

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